



February 18, 2015

Byron Shaw,
SRF Engineering Unit Chief
P.O. Box 176
1101 Riverside Dr
Jefferson City, MO 65102-0176
RE: ST JOSEPH EASTSIDE CANDY CREEK PUMP STATION PROJECT
AMERICAN IRON AND STEEL REQUIREMENT WAIVER REQUEST NO. 2

Dear Mr. Shaw:

GENERAL:

The design of pump station piping on the Eastside Candy Creek Pump Station Project includes three (3) 4-inch diameter stainless steel A.R.I. brand air release/vacuum valves to be installed on the new 16-inch diameter force main in the project. A letter from the manufacturer (attached) states they manufacture 4-inch diameter stainless steel air release/vacuum valves overseas (Israel).

- **Description of the foreign and domestic construction materials**

The design includes three (3) 4-inch diameter stainless steel A.R.I. air release/vacuum valves to be installed on the new Candy Creek Pump Station force main. The City has standardized on this brand of air/vacuum valve. (See attached memorandum) The City's utilizes the A.R.I air/vacuum valves on other force mains throughout the City and the City maintains replacement A.R.I parts and air release/vacuum valves in stock. The valve has the advantage of a body shape with clearance between the float and the body to prevent grease buildup from capturing the float. The 4-inch line size facilitates grease and debris entering the valve to fall back into the main pipeline resulting in less need to flush and otherwise maintain the valve. The stainless steel construction eliminates the need to remove the valve for cleaning and re-coating; cast iron valve construction over time corrodes in the high sulfide environment requiring reconditioning and re-coating to restore functionality.

- **Unit of measure**

The unit of measure is each.

- **Quantity**

There are three (3) 4-inch diameter stainless steel A.R.I. air release/vacuum valves on the project.

- **Price**
The price for the (3) 4-inch diameter stainless steel A.R.I. air release/vacuum valves is \$6,207.00 ea for a total of \$18,621.00.
- **Time of delivery or availability**
Delivery time will take approximately 3 weeks following approval of the waiver request..
- **Location of the construction project**
The construction project is east of St Joseph, Missouri, located in Section 28, Township 57N, Range 34W.
- **Name and address of the proposed supplier**
Kansas City Winwater, Inc.
3939A NE 33rd Terrace
Kansas City, Missouri 64117
Phone: (816) 459-8600
Fax (816) 459-8622
- **A detailed justification for the use of foreign construction materials**
The City has standardized on the A.R.I. air release/vacuum valve (see attached letter) and maintains spare parts and spare valves on hand for these valves. The City cites the following reasons for standardizing on these valves:
 1. All connection sizes, because of the bulbous shape tend to cause any solids or grease to slide back into the force main where cast iron valve bodies have closer tolerances and tend to clog up and become inoperable until cleaned.
 2. The A.R.I. valves in both stainless steel and Nylon are lighter for installation on PVC type force mains and do not cause pipe deflection or breakage of the attachment point.
 3. *With* their lighter construction, repairs, and cleaning are much easier in that the valve can be disassembled within the manhole without a crane or lifting apparatus.
 4. The ARI valve is constructed so that in operation less debris or grease enters the valve providing protection against fouling of the relief mechanism.

In addition, domestic cast iron valve bodies tend to rust requiring removal for reconditioning and recoating. The lightweight stainless steel body does not experience rusting in the high hydrogen sulfide environment.

AVAILABILITY WAIVER REQUESTS

- **Supplier information or pricing information from a reasonable number of domestic suppliers indicating availability/delivery date for construction materials**

- **Availability:** In a letter dated January 27, 2015 from Kansas City Winwater Company, the supplier states:

“Saint Joseph has changed out many of their traditional cast iron valves in their system due to clogging and corrosion. Their system has both some surge and grease concerns and ARI valve are designed to better handle these type of issues in pump station/force main applications. The City of Saint Joseph has standardized on ARI air valves due to performance, non-corrosive, ability to handle grease, and ease of maintenance.”

- **Delivery date:** In an e-mail from the contractor, he states delivery will be approximately 3 weeks from receipt of waiver approval and approved shop drawings.

Other manufacturers contacted include the following:

- **Crispin-Multiplex Mfg. Co., Berwick, PA.** These stainless steel air/vacuum valves are manufactured in sizes up to 2-inch diameter. 2-inch valves are not consistent with the requirement for 4-inch diameter which is specified to facilitate grease and debris to fall back into the main flow reducing clogging.
- **H-Tec, Inc of Marietta, GA.** Valves parts are manufactured in Germany and can be assembled in the US.

The H-Tec valves have a tapered body providing space between the body and the float for enhanced removal of grease and debris into the flow stream. The H-Tec valves are available in

- Stainless Steel (\$3,229.47)
- Carbon Steel Epoxy Coated (\$2,080)

Delivery is within a week of approval. The City has no spare parts for this valve.

- **Val-Matic Valve & Manufacturing Corporation, Elmhurst, IL.** These valves are available in
 - Cast Iron (\$3,216 ea)
 - Ductile Iron (\$3,570 ea) or
 - Stainless Steel (\$9,403 ea).

Delivery 3 weeks from approval of approval of submittals. Stainless steel would be much longer.

The body of these valves is relatively tight to the float which is of concern for grease and debris buildup between the body and the float. The City has no spare parts for this valve.

- **Documentation of the assistance recipient's efforts to find available domestic sources, such as a description of the process for identifying suppliers and a list of contacted suppliers.**

The Engineer (Snyder & Associates) on behalf of the City of St. Joseph, Missouri, contacted several valve manufacturers in an effort to find equivalent valves compliant with the AIS. Snyder conducted an internet search based in part with their experience with air/vacuum valve manufacturers known in the industry. See above discussion on Supplier information.

- **Project schedule**

We have attached a preliminary project schedule for the Eastside Candy Creek Pump Station as prepared by Garney Construction.

- **Relevant excerpts from project plans, specifications, and permits indicating the required quantity and quality of construction materials**

- **Plans:** See attached plan sheet C3.03 is included to show the air vacuum valve manhole used on the project.
- **Specifications:** We have attached the specification for the air/vacuum valve from Section 15100.

- **Waiver request includes a statement from the prime contractor and/or supplier confirming the non-availability of the domestic construction materials for which the waiver is sought.**

Attached is a letter from Kansas City Winwater Inc. who supplies the A.R.I. valves stating 4-inch diameter stainless steel A.I.R air/vacuum valves are not available domestically. (Israel).

On behalf of the City of St Joseph, Missouri, we request a waiver to purchase these three (3) valves for the project.

Byron Shaw
Missouri Department of Natural Resources SRF Section
February 18, 2015
Page 5 of 5

Please contact me if you have questions or need further clarification to move on this request for waiver.

Respectfully submitted,

SNYDER & ASSOCIATES, INC.



Alexander E. Macias P.E.
Project Manager

AEM/rmp

Enclosures

CC: David Frazier – City of St. Joseph.

City of St. Joseph

Water Protection 3500 State Route 759, St. Joseph, Missouri 64504

February 17, 2015

Mark Pearson
Snyder & Associates
802 Francis Street
St Joseph, MO 64501

Mr. Pearson,

The "City" has standardized on the ARI Air Release/Vacuum valves for the following reasons:

1. All connection sizes, because of the bulbous shape tend to cause any solids or grease to slide back into the force main where cast iron valve bodies have closer tolerances and tend to clog up and become inoperable until cleaned.
2. The ARI valves in both Stainless steel and Nylon are lighter for installation on PVC type force mains and do not cause pipe deflection or breakage of the attachment point.
3. Their lighter construction, repairs, and cleaning are much easier in that the valve can be disassembled in the manhole without a crane or lifting apparatus.
4. The ARI valve is constructed so that in operation less debris or grease enters the valve providing protection against fouling of the relief mechanism.

Thank you for your consideration.

Sincerely,



Donald Gilpin
Superintendent of Wastewater Treatment

g. Or equal.

2.15. SEWAGE AIR RELEASE AND COMBINATION AIR/VACUUM VALVES

- A. Sewage air and vacuum valves shall be the type that automatically release air, gas or vapor under pressure and allows air to reenter during draining or when a vacuum occurs.
- B. Air and vacuum valve shall have a bellshaped body and cover, either stainless steel, epoxy coated steel or reinforced nylon. The internal mechanism shall be a rolling seal, and all other internals, shall be stainless steel, EDPM , polycarbonate, or non corrosive material to positively prevent galvanic action. The float shall withstand a minimum pressure of 1000 psi.
- C. Each valve shall be supplied with quick connect couplings and 25 feet of hose for backflushing and hose for drainage as required.
- D. All materials of construction shall be certified in writing to conform to ASTM specifications as follows:

PART	MATERIAL	SPECIFICATION
Body and Cover & Baffle	Stainless Steel Epoxy Coated Reinforced Nylon	Type 316 (NSF approved)
Upper Float	Stainless Steel Polypropylene	ASTM A240
Lower Float	Stainless Steel Polycarbonate/SS	ASTM A240 T304
Stem, Guide Bushing	Stainless Steel Stainless Steel	Series T300
Seat	Buna-N	Nitrile Rubber
Exterior Paint	Phenolic Primer Red Oxide Stainless Steel Reinforced Nylon Epoxy Coated Steel	FDA Approved for potable water Type 316 NSF Approved

- E. Sewage Air Release and Combination Air/Vacuum Valves shall be A.R.I. or equal. model D023 non-slam.

Addendum No. 3



3939A NE 33rd Terrace
Kansas City Mo. 64117
816.459.8600
816.459.8622F

1-27-2014

Mr. Ryan Moloney
Garney Construction
RE: Air Valves For Candy Creek Forcemain

Dear Ryan,

Please use this letter for the AIS waiver request on the Air Valves for your Candy Creek Force Main in St. Joseph, Mo.

Saint Joseph has changed out many of their traditional cast iron valves in their system due to clogging and corrosion. Their system has both some surge and grease concerns and ARI valve are designed to better handle these type of issues in pump station/force main applications. The City of Saint Joseph has standardized on ARI air valves due to performance, non-corrosive, ability to handle grease, and ease of maintenance.

The price for the 4" flange air valves w/quick connect ARI model D023 non-slam are \$6207.00 ea for a total of \$18621.00. These valves are produced in Israel.

Kansas City Winwater will supplying these valves to you and once we have approval and we should be able to have them on site within 3 weeks.

Please do not hesitate to call with any questions.

Scott Wilson

A handwritten signature in black ink, appearing to read "Scott Wilson".

President



A.R.I. USA, Inc. – 4241 Jutland Drive Suite 304A, San Diego, Ca. 92117

tel: (559) 269-9653 , (877) 536-6201

Dec. 2009

To: Whom it May Concern.

Subject: Waiver for Israeli manufactured goods under the Economic Recovery Act of 2009.

On February 17th, 2009 President Obama signed into law the Economic Recovery Act of 2009. The bill is better known as the Stimulus Bill.

As part of the bill, the US Federal Government and State Governments will be purchasing goods and services for various projects.

ARRA Compliance

We do hereby certify that the equipment being offered by ARI Flow Control meets the requirements of the American Recovery and Reinvestment Act of 2009(b), as well as all relevant EPA addendums as noted in this letter.

Included in the Stimulus Bill is a ‘Buy American’ provision which requires steel, iron, and manufactured goods used in public works projects under the bill to be produced in the United States.

However, the “Buy American” provision must be “applied in a manner consistent with the United States obligations under international agreements”.

The relevant international agreements for Israeli manufacturers, seeking a waiver under the Stimulus Bill provisions, are the US-Israel Free Trade Agreement {FTA} and the World Trade Organization’s Government Procurement Agreement {GPA}, of which Israel and the United States are members.

Under Article 15 of the Free Trade Agreement, it is required that:

- 1} The parties endeavor to eliminate all restrictions to government procurement.
- 2} The United States will waive all Buy National restrictions with respect to Israeli manufactured goods for Government agency purchases.

Under the Joint Explanatory Statement of the Stimulus Bill, it indicates that Section 1605 provides for the use of American iron, steel and manufactured goods, **except** in certain instances.

On May 22, 2009 the EPA granted a nationwide waiver of the Buy American requirements of the ARRA Section 1605 under the authority of Section 1605{b}{1}{Public interest waiver} for De Minimis incidental components of eligible water infrastructure projects funded by ARRA. This action permits the use of Non-Domestic iron, steel, and manufactured goods when they occur in de minimis incidental

components of such projects funded by ARRA that may otherwise be prohibited under section 1605[a].

Accordingly EPA is hereby issuing a national waiver from the requirements of ARRA section [a] for the incidental components described above where such components comprise no more than 5 percent of the total cost of materials used in and incorporated into a project.

Part D, states that this section shall be applied in a manner **consistent with United States obligations under international agreements**, and to the extent necessary to comply with U.S. obligations under the “WTO” agreement and under US free trade agreements.

Given the above, it is confirmed that “Buy American” provisions of the Stimulus Bill do not apply to Israeli manufactured goods.

Please feel free to contact me for any further clarification.

Joel Sheinfeld

President A.R.I. USA, Inc.



(A) Ring & cover see specifications.	(H) Quick connect fitting.
(B) Backfill to haunch of pipe with bedding material.	(I) 4" air/vacuum valve.
(C) Standard manhole sections.	(J) 4" flanged BFV (wafer style not acceptable)
(D) 12" min. thickness of granular bedding materials.	(K) Reducer (if required)
(E) Undisturbed soil.	(L) Retaining Flange (typ.)
(F) Void between pipe and manhole section keep free of foreign material.	(M) Force Main 16" or 18" . See Bid.
(G) Do not rest manhole section on sewer pipe. Grout annular space.	(N) Tee.
	(O) Thrust Block.



MINIMUM THRUST BLOCK DIMENSIONS (INCHES)													
PIPE SIZE			TEE YEE		PLUG BRANCH	90° BEND		45° BEND		22 1/2° BEND		VALVES	
			D	H		C	H	C	H	C	H	S	F
2&3	A	B	C	H	C	H	C	H	C	H	S	F	
4	11	4	20	10	24	12	17	9	13	6	12	36	
6	17	6	27	15	34	17	24	13	18	9	18	48	
8	22	8	38	19	44	22	34	17	24	12	18	54	
10	27	10	46	23	54	27	40	20	28	14	24	54	
12	32	12	56	28	64	32	48	24	34	17	24	90	
14	38	14	64	32	76	38	56	28	40	20	30	96	
16	43	15	72	36	86	43	64	32	46	23	36	96	
18	48	16	80	40	96	48	70	35	50	25	42	96	
20	53	18	90	45	106	53	78	39	56	28	48	96	
24	63	22	108	54	126	63	94	47	68	34	48	132	

NOTE:
THRUST BLOCKING OF HDPE IS NOT REQUIRED UNDER NORMAL CONDITIONS DUE TO THE INHERENT RESTRAINT OF THE FUSION WELDED JOINTS. WHEN A SYSTEM CONNECTION IS WITHIN 20FT OF A 90° OR TEE FITTING, THE FITTING SHOULD BE THOROUGHLY BLOCKED USING PRECAST BLOCKS OR CAST IN PLACE PER CHART BELOW.



MISCELLANEOUS DETAILS

SNYDER & ASSOCIATES
ENGINEERS & PLANNERS, L.L.C.
www.snyder-associates.com

**Burns &
McDonnell**
SINCE 1898

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KANSAS CITY, MO 64114

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MARYVILLE, MO 64468
660-582-8888

802 FRANCIS STREET
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ST. JOSEPH EASTSIDE SEWER - PHASE 4

ASE 4

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ASTSIDE

DETAILS

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Project No: 112.0390

Sheet C3.03



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